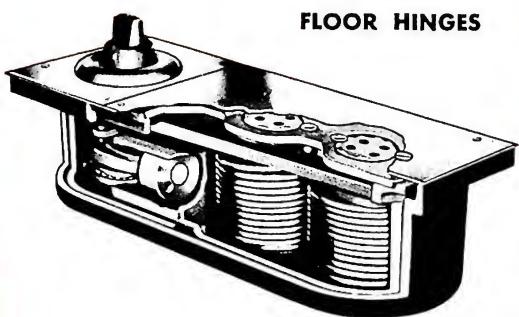


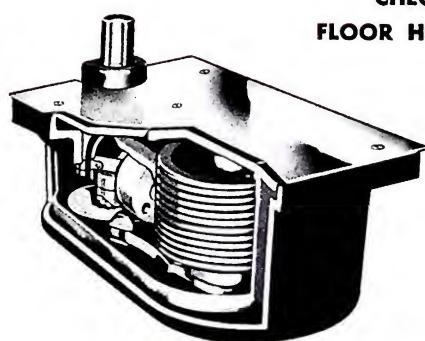


checking floor hinges
and pivots
gravity hinges
for INSTITUTIONS
and INDUSTRY

DOUBLE ACTING
CHECKING
FLOOR HINGES



HOLD OPEN
CHECKING
FLOOR HINGES



X-RAY
ROOM PIVOTS



GRAVITY HINGES



The SHELBY Spring Hinge Company
Shelby, Ohio



**HOLD
OPEN**

checking floor hinges

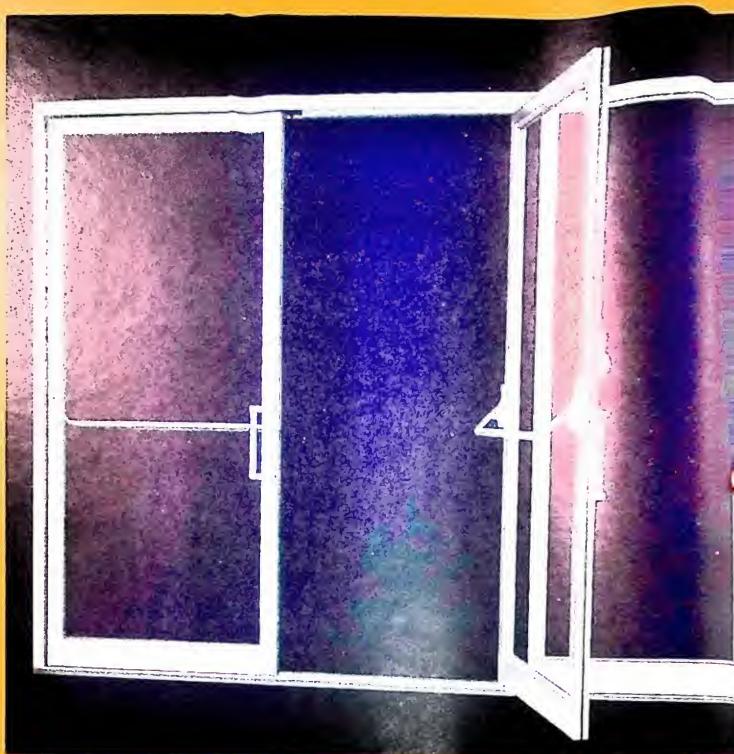
**for modern doors
and buildings**

Shelby checking floor hinges have always been designed to eliminate protruding mechanisms and accessories which would detract from the smooth flowing lines so important in modern design.

NOW, positive HOLD-OPEN—at either 90° or 180°—becomes a part of the Shelby line. Positive HOLD-OPEN is built right into the closer. It cannot be tampered with or misused. Doors cannot be opened beyond hold-open position—eliminating striking of walls or partitions.

COUNTER CHECK is also a part of Shelby HOLD-OPEN closers. COUNTER CHECK starts smoothly at approximately 15° before hold open position. Extra opening pressure warns of approaching hold-open stop and prevents accidental hold open.

You can specify Shelby positive HOLD-OPEN closers with confidence!



selection guide . . .

	model no.	max. interior door size	max. exterior door size	federal specifications	page nos.	shipping weight
double acting						
	10	2'10"	Do not use	FF-H-121c, type 3500, size II	3	16 lbs.
	010	2'10"	Do not use	FF-H-121c, type 3500, size II	3	16 lbs.
	11	3'6"	Do not use	FF-H-121c, type 3500, size III	3	16 lbs.
center hung	011	3'6"	Do not use	FF-H-121c, type 3500, size III	3	16 lbs.
	22	3'6"	2'10"	FF-H-121c, type 3510, size I	3	46 lbs.
	23	4'0"	3'6"	FF-H-121c, type 3510, size II	3	64 lbs.
	222	3'0"	2'10"	None (for tempered glass doors)	3	46 lbs.
	232	3'6"	3'6"	None (for tempered glass doors)	3	64 lbs.
	59 pivot	For all sizes of interior and exterior doors		FF-H-121c, type 3530	8	14 lbs.
single acting						
	18	3'6"	2'10"	FF-H-121c, type 3520A, size II	4	28 lbs.
	185	3'6"	2'10"	None	4	28 lbs.
	189	3'6"	2'10"	None	4	28 lbs.
	19	4'0"	3'6"	FF-H-121c, type 3520A, size III	4	37 lbs.
offset hung	195	4'0"	3'6"	None	4	37 lbs.
	199	4'0"	3'6"	None	4	37 lbs.
	A18	3'6"	2'10"	FF-H-121c, type 3520B, Size II	6	28 lbs.
	A18	4'0"	3'6"	FF-H-121c, type 3520B, size III	6	37 lbs.
	1958	For x-ray room doors		FF-H-121c, type 3520C, size III	7	41 lbs.
	9 pivot	For medium or light weight doors			8	4½ lbs.
	55 pivot	For all sizes of interior and exterior doors		FF-H-121c, type 3530A	8	14 lbs.
	57 pivot	For x-ray room lead lined doors		FF-H-121c, type 3530B	7	16 lbs.
butt hung	B18	3'6"	2'10"	FF-H-121c, type 3522, size II	6	27 lbs.
	B19	4'0"	3'6"	FF-H-121c, type 3522, size III	6	35 lbs.
center hung	C18	3'6"	2'10"	FF-H-121c, type 3520, size II	5	27 lbs.
	C185	3'6"	2'10"	None	5	27 lbs.
	C189	3'6"	2'10"	None	5	27 lbs.
	C19	4'0"	3'6"	FF-H-121c, type 3520, size III	5	36 lbs.
	C195	4'0"	3'6"	None	5	36 lbs.
	C199	4'0"	3'6"	None	5	36 lbs.
	C182	3'0"	2'8"	None (for tempered glass doors)	5	27 lbs.
	C192	3'6"	3'6"	None (for tempered glass doors)	5	36 lbs.
gravity hinges	G1-G6½	No limit to door size			8	78 lbs.
thresholds		For all size doors			8	
finishes		Exposed parts of all hinges and pivots finished in dull or polished bronze, brass, nickel, or chrome.				



checking floor hinges

DOUBLE ACTING checking floor hinges

nos. 10, 010, 11, and 011—center hung

for light interior doors only

Federal specifications FF-H-121c, type 3500, sizes I and II

A cam-operated, compression spring checking floor hinge recommended for use on fine residential or other interior double acting doors. It is not constructed for heavy duty work. The design provides for quick door alignment and controlled closing speed.

Set includes top pivot and floor plate. Cement case furnished when specified.



specifications

Hinge No.	Maximum door size	Hinge case	Cement case	Hold open	Fed. spec. size	Shipping Weight
10	2'10" x 7' x 1 1/4"	8 5/8" x 4 5/16" x 2 11/16"	9 5/16" x 4 5/8" x 3"	Yes	II	16 lbs.
010	2'10" x 7' x 1 1/4"	8 5/8" x 4 5/16" x 2 11/16"	9 5/16" x 4 5/8" x 3"	No	II	16 lbs.
11	3'6" x 7'6" x 1 1/4"	8 5/8" x 4 5/16" x 2 11/16"	9 5/16" x 4 5/8" x 3"	Yes	III	16 lbs.
011	3'6" x 7'6" x 1 1/4"	8 5/8" x 4 5/16" x 2 11/16"	9 5/16" x 4 5/8" x 3"	No	III	16 lbs.

Shipping weight less cement case—10 lbs.

DOUBLE ACTING checking floor hinges

nos. 22 and 23—center hung

for entrance and large interior doors

Federal specifications FF-H-121c, type 3510, sizes I and II

This large, double acting hinge makes possible completely concealed hardware—there are no protruding arms. Closing is smooth and quiet—without flapping—and closing speed is easily regulated. Weight of the door rests on ball bearings—not on the operating mechanism.

Set includes top pivot, floor plate, and cement case.



specifications

Hinge No.	Maximum interior door size	Maximum entrance door size	Cement case	Fed. spec. size	Shipping weight
22	3'6" x 7'6"	2'10" x 7'6"	14 9/16" x 5 3/8" x 3 5/8"	I	46 lbs.
23	4'6" x 7'6"	3'6" x 7'6"	17" x 6 1/8" x 4 1/8"	II	64 lbs.

Note—Nos. 222 and 232 for tempered glass door installation are also available.



checking floor hinges



SINGLE checking floor hinges ACTING

nos. 18 and 19—offset hung

for entrance and large interior doors

Federal specifications FF-H-121c, type 3520A, sizes II and III

Especially adapted to schools and institutions—tampering with working parts is eliminated—all of the operating mechanism is concealed in the floor. Nothing hangs below the top rail to reduce headroom.

Set includes top pivot, floor plate, and cement case. No. M7 intermediate pivot supplied when required.

specifications

Hinge No.	Maximum interior door size	Maximum entrance door size	Cement case	Fed. spec. size	Shipping weight
18	3'6" wide	2'10" wide	10 $\frac{1}{8}$ " x 5" x 3 $\frac{1}{8}$ "	II	28 lbs.
19	4'0" wide	3'6" wide	11 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ "	III	37 lbs.

HOLD checking floor hinges OPEN

nos. 185, 189, 195, and 199—offset hung

for all types of exterior doors (aluminum, wood, glass, metal) and interior doors

POSITIVE HOLD-OPEN CLOSERS are completely concealed in the floor. There is never any installation problem because of lack of space in head jambs. Extra expense for door stops or hold open devices is eliminated.

POSITIVE HOLD-OPEN is built right into the closer. It cannot be tampered with or misused and is sure, safe, convenient, and fool-proof. To push doors into hold-open position, about three (3) times the normal door-opening pressure is necessary. Doors cannot be opened beyond hold-open position—this prevents them from striking walls, glass, or partitions.

COUNTER CHECK starts smoothly at approximately 15° before hold open position. Extra opening pressure warns of approaching hold-open stop, and prevents doors from being accidentally thrust into hold open position. Counter check is reliable, safe, yet functionally simple.

Set includes top pivot, floor plate, and cement case. No. M7 intermediate pivot supplied when required.

specifications

Hinge No.	Hold open setting	Maximum interior door size	Maximum entrance door size	Cement case	Shipping weight
185	105°	3'6" wide	2'10" wide	10 $\frac{1}{8}$ " x 5" x 3 $\frac{1}{8}$ "	28 lbs.
189	90°	3'6" wide	2'10" wide	10 $\frac{1}{8}$ " x 5" x 3 $\frac{1}{8}$ "	28 lbs.
195	105°	4'0" wide	3'6" wide	11 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ "	37 lbs.
199	90°	4'0" wide	3'6" wide	11 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ "	37 lbs.

Note—95° and 100° hold-open can be supplied on special order at no extra charge.



SINGLE ACTING checking floor hinges

nos. C18 and C19—center hung

**for entrance and interior doors,
or doors without mullions**

Federal specifications FF-H-121c, type 3520, sizes II and III

These closers eliminate interference with specially designed jambs, glass above doors, or unusual transom construction. Twin center cases are available for use with doors without mullions hung back to back.

Set includes top pivot, floor plate, and cement case.



specifications

Hinge No.	Maximum interior door size	Maximum exterior door size	Cement case	Fed. Spec. size	Shipping weight
C18	3'6" wide	2'10" wide	10 $\frac{1}{8}$ " x 5" x 3 $\frac{3}{8}$ "	II	27 lbs.
C19	4'0" wide	3'6" wide	11 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ "	III	36 lbs.

Note—Nos. C182 and C192 closers for glass door installation are also available.

HOLD OPEN checking floor hinges

nos. C185, C189, C195, and C199—center hung

for all types of exterior doors (aluminum, wood, glass, metal) and interior doors

POSITIVE HOLD-OPEN CLOSERS are completely concealed in the floor. There is never any installation problem because of lack of space in head jambs. Extra expense for door stops or hold open devices is eliminated.

POSITIVE HOLD-OPEN is built right into the closer. It cannot be tampered with or misused and is sure, safe, convenient, and fool-proof. To push doors into hold-open position, about three (3) times the normal door-opening pressure is necessary. Doors cannot be opened beyond hold-open position—this prevents them from striking walls, glass, or partitions.

COUNTER CHECK starts smoothly at approximately 15° before hold open position. Extra opening pressure warns of approaching hold-open stop, and prevents doors from being accidentally thrust into hold open position. Counter check is reliable, safe, yet functionally simple.

Set includes No. 2 top pivot, floor plate, and cement case.

specifications

Hinge No.	Hold open setting	Maximum interior door size	Maximum entrance door size	Cement case	Shipping weight
C185	105°	3'6" wide	2'10" wide	10 $\frac{1}{8}$ " x 5" x 3 $\frac{3}{8}$ "	27 lbs.
C189	90°	3'6" wide	2'10" wide	10 $\frac{1}{8}$ " x 5" x 3 $\frac{3}{8}$ "	27 lbs.
C195	105°	4'0" wide	3'6" wide	11 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ "	36 lbs.
C199	90°	4'0" wide	3'6" wide	11 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ "	36 lbs.

Note—95° and 100° hold-open can be supplied on special order at no extra charge.





checking floor hinges



SINGLE checking floor hinges ACTING

nos. A18 and A19—offset hung

**for mental institutions and
live-outline installations**

Federal specifications FF-H-121c, type 3520B, sizes II and III

Applicable especially for use in mentally disturbed patient hospitals or where modern streamlining of top and intermediate pivot is desired. The top pivot has been designed with sloping face to fit tightly against the door frame. In mental institutions this prevents a deranged person from hanging himself from the top pivot. The intermediate pivot is similarly designed to fit flush against the jamb.

Set includes No. 6A top pivot, (No. 7A intermediate pivot when specified), floor plate and cement case.

specifications

Hinge No.	Maximum interior door size	Maximum exterior door size	Cement case	Fed. spec. size	Shipping weight
A18	3'6" wide	2'10" wide	10 $\frac{1}{16}$ " x 5" x 3 $\frac{3}{8}$ "	II	28 lbs.
A19	4'0" wide	3'6" wide	11 $\frac{1}{8}$ " x 5 $\frac{7}{8}$ " x 4 $\frac{1}{8}$ "	III	37 lbs.



SINGLE checking floor hinges ACTING

nos. B18 and B19

**for entrance and interior
doors hung on butts**

Federal specifications FF-H-121c, type 3522, sizes II and III

A time-tested closer, combined with an improved type concealed sliding arm, designed for doors hung on butts or pivots. Adaptable to wood or metal doors. Weight of door completely supported by butts or pivots. The oil-impregnated, bronze arm slide requires no lubrication.

Set includes floor plate and cement case. No. M7 pivots recommended instead of butts.

specifications

Hinge No.	Maximum interior door size	Maximum exterior door size	Cement case	Fed. spec. size	Shipping weight
B18	3'6" wide	2'10" wide	10 $\frac{1}{16}$ " x 5" x 3 $\frac{3}{8}$ "	II	27 lbs.
B19	4'0" wide	3'6" wide	11 $\frac{1}{8}$ " x 5 $\frac{7}{8}$ " x 4 $\frac{1}{8}$ "	III	35 lbs.



checking floor hinges

x-ray doors

heavy duty pivot

no. 57—single acting

for heavy lead lined doors

1 3/4 in. to 2 1/2 in. thick

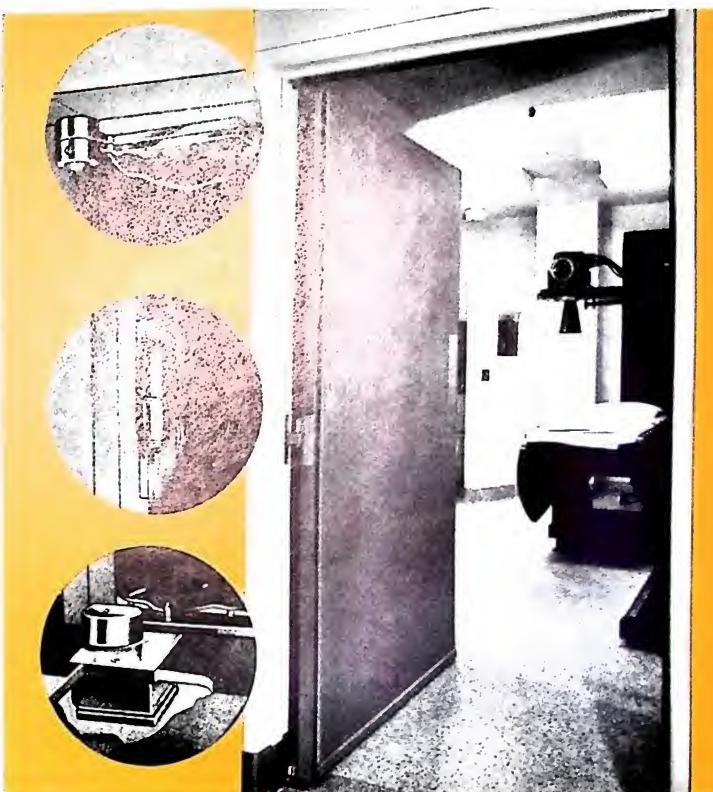
Federal specifications FF-H-121c, type 3530B

Designed and built to take the strain of heavy lead lined x-ray room doors weighing up to 40 pounds per square foot. All screw holes of pivot arms straddle the lead lining which provides maximum protection from stray radiation. The bottom pivot arm is set close to the floor and pivot arms require minimum mortising of door and lead shielding. Rigid anchoring of large cement case and even balancing of door weight cuts door frame strain to a minimum. Door thickness must be specified when ordering.

Set includes No. 4 top pivot (No. 5 intermediate pivot supplied when specified), floor plate, and cement case.

specifications

Pivot No.	Maximum door size	Floor plate	Cement case	Shipping weight
57	4'0"	4 5/8" x 3 1/2"	4 1/2" x 4 1/4" x 2 5/8"	16 lbs.



x-ray doors • checking floor hinge

no. 1958—single acting

for medium weight lead lined doors

1 3/4 in. to 2 1/2 in. thick

Federal specifications FF-H-121c, type 3520C, size III

This checking floor hinge assures positive, automatic closing for lead lined, x-ray room doors weighing up to 25 pounds per square foot. The action is smooth and quiet. Screw holes in hinge and pivot arms straddle the lead shielding and give maximum protection from stray radiation. Door thickness must be specified.

Set includes No. 4 top pivot (No. 5 intermediate pivot supplied when specified), cement case, and floor plate.

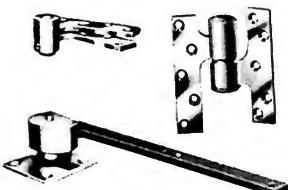
specifications

Hinge No.	Maximum door size	Cement case	Fed. spec. size	Shipping weight
1958	4'0" wide	11 1/8" x 5 7/8" x 4 1/8"	III	41 lbs.





ball bearing pivots

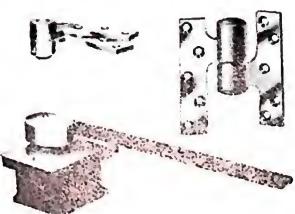


single acting

no. 9—offset hung

For use instead of butt hinges on medium and light weight doors—closets, cabinets, and passage doors—when hardware exposure must be kept to a minimum. Fastens directly to finished floor and is adjustable for door clearance.

Set includes top and bottom pivot. No. M 7 intermediate pivot furnished when specified.

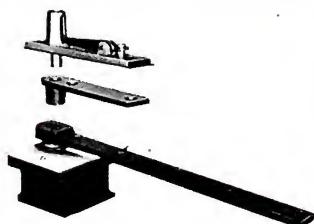


single acting

no. 55—offset hung

This heavy duty pivot is used extensively for medium and heavy weight entrance and interior doors. Weight of the door rests on a forged steel spindle seated on ball bearings. Set includes top and bottom pivot.

No. M 7 intermediate pivot furnished when specified.

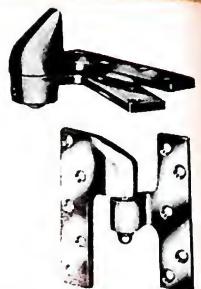


double acting

no. 59—center hung

When exposed hardware must be eliminated on medium and heavy weight interior doors, this pivot should be specified. With it, only the floor plate can be seen. Weight of the door rests on a forged steel spindle seated on ball bearings.

Set includes top pivot and floor plate.



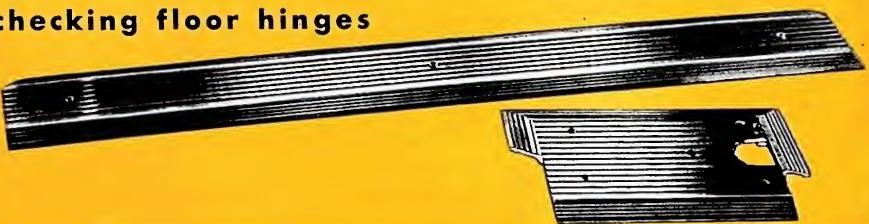
asylum pivots

nos. 6A and 7A

For mental institutions or modern streamlining. Top pivot designed with sloping face fit tightly against the frame and intermediate fit flush against the jamb.

thresholds for SHELBY checking floor hinges

Complete thresholds are available for all models of Shelby checking floor hinges in either aluminum or brass. Shelby thresholds are accurately cut and fitted. Special preparation on the site is unnecessary.



DOUBLE ACTING gravity hinges

nos. G-1 to G-6½

for heavy industrial doors and loading platforms

An easy push by hand or with a truck opens heavy double acting doors, and when released, gravity swings them closed immediately. Shelby gravity hinges have few working parts, nothing to get out of order, and are built for rough use. They meet modern air conditioning requirements. Jamb construction must allow for a two inch rise of the doors.

Set includes two hinges and all bolts for a pair of double acting doors. Finished in dull black.

Spring steel buffers No. GB14 (shown on doors at left), insure maximum life of heavy doors. Set includes 4 buffers with screw and bolts. Finished in dull black, and sprayed cadmium.

Shipping weight 40 pounds.

size recommendations

Door thickness	DOORS 3'0" AND NARROWER		DOORS OVER 3'0" WIDE	
	Wood heading	Channel heading	Wood heading	Channel heading
1 3/4"	G-1	G-1 1/2	G-4	G-4 1/2
1 7/8"	G-2	G-2 1/2	G-5	G-5 1/2
2 1/4"	G-3	G-3 1/2	G-6	G-6 1/2

Digitized by:



ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

<https://archive.org/details/buildingtechnologyheritagelibrary>

From the collection of:

Carol J. Dyson, AIA